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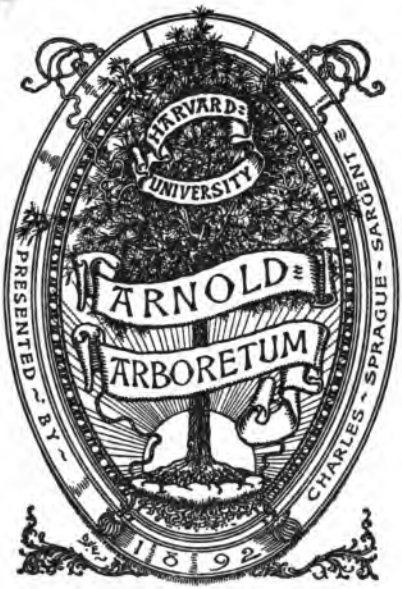

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A LIST

OF

PLANTS

COLLECTED IN THE

VICINITY OF OQUAWKA,

HENDERSON COUNTY, ILLS.,

BY

HARRY N. PATTERSON.

OQUAWKA SPECTATOR PRINT.

1874.

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PREFACE.

This is intended to be a nearly complete list of the Phænogamous Plants (and Filices) growing in the immediate vicinity of OQUAWKA, ILLINOIS. 709 species are enumerated, (not including Mosses,) and of these I have found 654 within three miles of OQUAWKA.

During the last three years I have kept a careful record of the time of flowering of many of our plants, and thinking this record might be of interest to my correspondents, I give the dates. The record for each year was made without any reference to the dates of other years.

January 1, 1874. HARRY N. PATTERSON.

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CATALOGUE.

The ! affixed to dates in the column of "first fls." signifies that the plant was in flower at that time, perhaps a few days earlier; in the column of "last fls." the sign denotes that the plant remained in flower until that date, perhaps a little later.

RANUNCULACEÆ.	1871. First fls. about	1871. Last fls. about	1872. First fls. about	1872. Last fls. about	1873. First fls. about	1873. Last fls. about
Clematis Pitcheri, Torr. & Gr.	May 27		June 11	Aug !	Jun 28 !	
Virginiana, L.			Aug 5			
Anemone Caroliniana, Walt.	April 4	May 11	Apr 23		Apr 23	June 10
cylindrica, Gray						
Virginiana, L.						
Pennsylvanica, L.	May 14		May 18	July 14	May 22	
Hepatica acutiloba, DC.	Mar 18	April 24	April 8		April 2	May 12
Thalictrum anemonoides, Mx.			Apr 24	May 30!	May 7	
purpurascens, L.	June 3	June 30	June 15			
Ranunculus multifidus, Pursh.	May 7		May 10			
divaricatus, Schrank					May	
aquatilis, L., var.						
abortivus, L.	April 9	Jun 19 !	Apr 28	Jn 26 !	May 4	
Pennsylvanicus, L.						
fascicularis, Muhl.			Apr 24	May 25	Apr 27	
repens, L.	April 7		Apr 25		May 1	
Isopyrum biternatum, T. & G.	April 4	May 14	Apr 18	Apr 28	Apr 26	
Aquilegia Canadensis, L.	April 26		May 9	July 12	May 17	Aug
Delphinium tricorne, Mx.			May 13		May 20	Jun 12
azureum, Mx.	May 23	June 25	June 4	July 9	June 7	

Prairies and oak barrens throughout the county, near the Mississippi. Near Warsaw, in the adjoining county of Hancock—Dr. MEAD. "Very rare in Ills"—M. S. BEBB.

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RANUNCULACEÆ.	1871.		1872.		1873.	
Actæa alba, Bigel.....			May 18	May 30!		
ANONACEÆ.						
Asimina triloba, Dunal.....	Aprl 24	May 12	May 10	May 21		
MENISPERMACEÆ.						
Menispermum Canadense, L.			June 1	June 18	June 8	
BERBERIDACEÆ.						
Caulophyllum thalictroides Mx	Aprl 26		May 5			
Podophyllum peltatum, L...	May 1	May 18	May 9	June 1		
NYMPHÆACEÆ.						
Nelumbium luteum, Willd..	Jul 23!	Sept 10	July 24	Sept 10		
Nymphæa tuberosa, Paine...			Jun 12!	Sept		
Nuphar advena, Ait.....	May 20		May 27	Sept		
PAPAVERACEÆ.						
Argemone Mexicana, L.....						
Sanguinaria Canadensis, L...	April 5	Apl 24!	Aprl 19	May 3	Aprl 12	May 18!
FUMARIACEÆ.						
Dicentra Cucullaria, DC.....	April 6	April 26	April 20		April 23	May 20
Corydalis aurea, v. micrantha					May 14	

A single plant found on the river bank a mile north of Oquawka.

CRUCIFERÆ.

Nasturtium sessiliflorum, Nutt

The ordinary ? (radl) form along the edges of ponds, May—June, rather rare. A dwarf form, on sand bars and low river banks is more common, and blooms from May till October.

palustre, DC.....			May 22			*Frost
lacustre, Gray.....			June 10	Jul 25!		
Dentaria laciniata, Muhl.....	April 4	Aprl 28	Aprl 22	May 9	Aprl 26	May 20
Cardamine rhomboidea, DC..	April 13	May 20	May 2	May 25!	May 10	
hirsuta, L.....	April 7		Aprl 28			
Arabis lyrata, L.....	April 6	July	Aprl 18	Aug 7!		
dentata, T. & Gr.....	April 25	June 20	May 8			
lævigata, DC.....	May 6	July 25	Aprl 30	Jul 18!		
hesperidoides, Gray.....			June 7	July		
Erysimum cheiranthoides, L.	June 15					
Brassica nigra, Gray.....	May 31		June 12		May 25	
Sisymbrium officinale, Scop..	May 11	Aug 22!	Jun 8	Sept 1		
canescens, Nutt.....			May 1	June 19		
Draba Caroliniana, Walt....	Mch 31	Aprl 23	Aprl 17	May 2	Aprl 19	May 12
Capsella Bursa-pastoris, Mœn.	April 9		Aprl 27		Aprl 25	Frost
Lepidium Virginicum, L....	May 12		May 8		May 16	Frost
CAPPARIDACEÆ.						
Polanisia graveolens, Raf....	May 30		June 6			Frost
Cleome integrifolia, T. & Gr.			June 2	Sept 10	June 27	

Introduced. A beautiful plant, native "from New Mexico to the Upper Missouri and Oregon." Well established and slowly spreading along roads, Oquawka.

*Plants marked "Frost" flower until killed by hard frosts in October.

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VIOLACEÆ.	1871.		1872.		1873.	
Viola cucullata, Ait.....	April 6		Aprl 24	May 30!	Aprl 30	
sagittata, Ait.....			Aprl 28	May 26		
delphinifolia, Nutt.....			Aprl 24	May 30	May 2	
pedata, L.....	Aprl 12	May 25	May 27	June 6	May 1	
var. bicolor.....						
pubescens, Ait.....	Aprl 10		May 5	June	May 3	
CISTACEÆ.						
Helianthemum Canadense, Mx	May 19		May 26	Jul 29!	June 11	
The dates belong to the large, early flowers.						
Lechea major, Mx.....						
minor, Lam.....					Jun 20!	Frost
HYPERICACEÆ.						
Hypericum nudiflorum, Mx..	June 19		June 23	Aug 6		
pyramidatum, Ait.....		July 15	June 25	July 28		
sphærocarpon, Mx.....						
corymbosum, Muhl.....						
Canadense, L., v. major.						
CARYOPHYLLACEÆ.						
Saponaria officinalis, L.....	June 8		June 21		June 24	Frost
Vaccaria vulgaris, Host.						
Very rare as yet, along railroads.						
Silene stellata, Ait.....	July 1	Aug 17	July 2	Sept 2 !		
nivea, DC.....	June 1		June 10	July 14	June 8	
inflata, Smith.....						
antirrhina, L.....	May 14		May	July !		
Arenaria lateriflora, L.....						
Stellaria media, Smith.....						
Cerastium nutans, Raf.....	Aprl 24		May 6	June !	May 22	
Anychia dichotoma, Mx.....	June 12					Frost
Mollugo verticillata, L.....	June 16		June 1			Frost
PORTULACACEÆ.						
Portulaca oleracea, L.....	June 10					Frost
Talinum teretifolium, Pursh.	June		June 24	Sept !	June 25	
Claytonia Virginica, L.....	Mch 30	May 3	Aprl 16		Aprl 24	
Caroliniana, Mx.....	Aprl 12	May 11				
MALVACEÆ.						
Malva rotundifolia, L.....	May 22		June 5			Frost
Callirhoe triangulata, Gray..	July 24		July 21	Sept	July 13	
Now nearly extinct here.						
Sida spinosa, L.....	June 16		July 9			Frost
Abutilon Avicennæ, Gærtn..	July 15		July 25			Frost
Hibiscus militaris, Cav.....	July 27		Aug 1			
Trionum, L.....	June 21		July 9			Frost
TILIACEÆ.						
Tilia Americana, L.....					June 24	

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LINACEÆ.	1871.		1872.		1873.	
Linum sulcatum, Riddell....	June 9	Sept 25!				
GERANIACEÆ.						
Geranium maculatum, L....	May 6	June 2	May 11	June 15	May 10	
Impatiens pallida, Nutt.....	June 10		July 11			Frost
fulva, Nutt.....			July 11			Frost
Oxalis violacea, L.....	Aprl 24		May 1	June 13	May 2	
stricta, L.....	May 13		May 21			Frost
RUTACEÆ.						
Zanthoxylum American., Mill			Aprl 25			
Ptelea trifoliata, L.....	May 20	June	May 25	June 12		
ANACARDIACEÆ.						
Rhus glabra, L.....	June 5		June 17	July 10!		
Toxicodendron, L.....	May 29	June 4	June 10	Jun 20!		
aromatica, Ait.....	May 2	May 22	May 11		May 18	June
VITACEÆ.						
Vitis æstivalis, Mx.....						
cordifolia, Mx.....						
Ampelopsis quinquefolia, Mx.	June 12	June 17				
RHAMNACEÆ.						
Rhamnus lanceolatus, Pursh.			May 10	May 25	May 26	
Both the forms noticed in Gray's Manual. Fruit usually small, rarely four lines in diameter and juicy !						
Ceanothus Americanus, L....	June 8		June 18	July 30	June 25	
CELASTRACEÆ.						
Celastrus scandens, L.....	May 18	May 24	May 26	June 5	May 30	
Euonymus atropurpur., Jacq.	May 26	June 19	June 6	June 30	June 15	
SAPINDACEÆ.						
Staphylea trifolia, L.....	Aprl 28	May 12	May 9	May 24	May 16	
Æsculus glabra, Willd.....	Aprl 14	May 20	May 1	May 16	May 8	
Fruit sometimes entirely destitute of prickles, even when young.						
Acer saccharinum, Wang...	Aprl 10	Aprl 28				
dasycarpum, Ehrh.....	Mrch 8	Mrch 22	Mch 28	Aprl 9	May 16	Aprl 5
Negundo aceroides, Mœnch..	Aprl 10	Aprl 26	Aprl 21	May 2	Aprl 25	May 16
POLYGALACEÆ.						
Polygala incarnata, L.....		Sept 24!				
sanguinea, L.....	June 16					Frost
verticillata, L.....			June 24			Frost
Senega, L.....	May 6	June 1	May 12	June 30		
LEGUMINOSÆ.						
Trifolium pratense, L.....	May 7		May 15			Frost
repens, L.....	May 7		May 15			
Melilotus alba, Lam.....						
officinalis, Willd.....						
Petalostemon violaceus, Mx..	June 18	Sep 17!	June 29			
candidus, Mx.....	June 22	Sep 17!	June 21		June 28	

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LEGUMINOSÆ.	1871.		1872.		1873.	
Amorpha fruticosa, L.....	May 20	June 12	May 30	Jun 16!	June 8	
canescens, Nutt.....	June 9!	Aug 16	June 21	Aug 23!		
Tephrosia Virginiana, Pers..	June 4	Aug 16	June 22		June 2	
Astragalus Canadensis, L....	July 4		July 20	Aug 17!		
Desmodium acuminatum, DC.	June 16	Sept 13	July 3	Aug 25!		
canescens, DC.....						
Illinoense, Gray.....					July 10	Aug 11
Canadense, DC.....						
sessilifolium, T. & G....			Aug 5			
Lespedeza violacea, Pers.....	July 28	Sep 15!				
capitata, Mx.....	July 26	Sept 5	Aug 6			
Lathyrus palustris, L.....						
Apios tuberosa, Mœnch.....						
Phaseolus diversifolius, Pers.			July 10			Frost
Amphicarpæa monoica, Nutt.	July 29		Aug 5			Frost
Cercis Canadensis, L.....	Aprl 12	May 6	Aprl 29	May 17	May 12	
Baptisia leucantha, T. & Gr..	June 1		June 3	Aug 25!	June 24	
leucophæa, Nutt.....	Aprl 28	May 25	May 7	June 6	May 20	June 14
Cassia Marilandica, L.....			July 29			
Chamæcrista, L.....	July 3	Sept 15!	July 4			
nictitans, L.....			July 24		Aug 1	
Gymnocladus Canadensis Lam	May 15	May 26	May 26	June 9	June 4	
Gleditschia triacanthos, L...	May 14	May 25	May 30		June 6	
ROSACEÆ.						
Prunus Americana, Marshall.	Aprl 10	May 3	Aprl 27	May 15	May 5	May 21
" var. ?..			May 1			

Frequent in the Mississippi bottoms. This is the plum I have distributed as P. Chicasa, Mx.; but Dr. GRAY pronounces it to be "P. rivularis, Scheele—I think not distinct from P. Americana." Fruit ripens later than that of the common form, round, red; one edge of the seed sharp, the other grooved. Leaves very smooth and shining.

Virginiana, L.....	May 1	May 12	May 5		May 21	May 31
serotina, Ehrh.....	May 7	May 17	May 16		May 24	June 3
Spiræa opulifolia, L.....	May 18					
Aruncus, L.....	May 30	June 19	June 9	Jun 29!	June 11	
Agrimonia Eupatoria, L.....			July 21	Sep 25!		
Geum album, Gmelin.....		Aug 2!			June 28	
Virginianum, L.....					June 16	
Potentilla Norvegica, L.....	June 8		June 20		May 30	Frost
Canadensis, L.....	May 13		May 18	Jun 25!	May 21	
arguta, Pursh.....			July 3		June 28	
Fragaria Virginiana, Ehrh...						
Rubus occidentalis, L.....						May 28
villosus, Ait.....		Jun 10!		Jun 12!	June 1	
Rosa blanda, Ait.....						
lucida, Ehrh.....						
Cratægus coccinea, L.?					May 26	
tomentosa, L.....	Aprl 21	May 11	May 1	May 17	May 13	
Pyrus coronaria, L.....	Aprl 24	May 15	May 9	May 20	May 17	
Amelanchier Canad., T. & G.	Aprl 11	Aprl 20	Aprl 24	May 7	May 1	May 14

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SAXIFRAGACEÆ.	1871.		1872.		1873.	
Ribes Cynosbati, L.....						
rotundifolium, Mx.....	Aprl 15	May 7	Aprl 25	May 12	May 2	
floridum, L.....	Aprl 21	May 13	May 8		May 10	May 31
Heuchera hispida, Pursh....	May 16	June 8	June 1	June 26	June 25	
Mitella diphylla, L.....	Aprl 14		May 11		May 13	May 24
CRASSULACEÆ.						
Penthorum sedoides, L.....	June 26	Sept 10	July 7	Sept 5!		
HALORAGEÆ.						
Myriophyllum scabratum, Mx.			June 18	Aug 20!	June 1	
ONAGRACEÆ.						
Circæa Lutetiana, L.....	June 15		June 23	July 31!	June 29	
Gaura biennis, L.....						
Epilobium coloratum, Muhl..		Sep 12!	July 15			
Œnothera biennis, L.....	July 10		July 12			Frost
rhombipetala, Nutt.....	June 15	Sept !	June 27		June 23	
fruticosa, L.....	May 27	June 20	June 6	July 19	June 7	
Ludwigia alternifolia, L.....				Aug 7 !		
polycarpa, Short & Peter.			July 28			Frost
palustris, Ell.....				Sep 28 !		
LYTHRACEÆ.						
Ammannia humilis, Mx.....						
latifolia, L.....			Aug 8			Frost
Nuttallii, Gray.....						
Lythrum alatum, Pursh.....	June 12		June 22	Sep 20!		
CACTACEÆ.						
Opuntia Rafinesquii, Engelm.			June 16			
UMBELLIFERÆ.						
Sanicula Canadensis, L.....					June 1	
Eryngium yuccæfolium, Mx..			July 20	Aug 19!		
Polytænia Nuttallii, DC.....			May 26		June 20	
Heracleum lanatum, Mx.....	May 20				June 1	
Pastinaca sativa, L.....	May 20				May 27	
Archemora rigida, DC.....			July 22			

I have never seen any published notice of one peculiarity of this species: The 6—10 fibrous roots proceeding from the base of the stem bear at their extremities roundish tubers something like those of Apios tuberosa, varying in size with the age of the plant, the larger ones an inch or more in thickness.

Thaspium barbinode, Nutt...					June 11	
aureum, var apterum, Gr.						
trifoliatum, Gray.....						
Zizia integerrima, DC.....			May 18		May 25	
Cicuta maculata, L.....	June 27				June 25	
Sium lineare, Mx.....	July 26	Sept 20				
Cryptotænia Canadensis, DC.					June 12	
Chærophyllum procumb., Lam						
Osmorrhiza longistylis, DC..	May 14					

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CUCURBITACEÆ.	1871.		1872.		1873.	
Sicyos angulatus, L.....	Aug 2					Frost
Echinocystis lobata, T. & G.	Aug 5		Aug 3			
ARALIACEÆ.						
Aralia racemosa, L.....			July 17	Aug 13!		
quinquefolia, Gray.....						
CORNACEÆ.						
Cornus sericea, L.?						
asperifolia, Mx.....						
paniculata, L'Her.....	May 27	June 12				
alternifolia, L.....	May 12	May 18	May 25	May 30	May 30	
CAPRIFOLIACEÆ.						
Lonicera parviflora, Lam....	May 14	May 26	May 28			
Triosteum perfoliatum, L....	May 20		May 15	Jun 25!	June 1	
Sambucus Canadensis, L....	June 1		June 10	Aug 7!	June 20	
Viburnum Lentago, L.....					May 24	
RUBIACEÆ.						
Galium concinnum, T. & Gr.	June 5		June 11	July 18	June 12	
trifidum, L.....					June 3	
triflorum, Mx.....	May 7	Sept		Aug 25!		
circæzans, Mx.....						
Cephalanthus occidentalis, L.	July 8	Aug 7!	June 29	Aug 25!		
COMPOSITÆ.						
Vernonia fasciculata, Mx....	July 20		July 24		July 27	Frost
Liatris cylindracea, Mx.....	July 27	Sept 18	Aug 2		Aug 5	
scariosa, Willd.....	Aug 11					Frost
pycnostachya, Mx.....	July 20		Aug 1		July 24	
Kuhnia eupatorioides, L.....	Aug 1		Aug 18			
Eupatorium purpureum, L...	July 29					
altissimum, L.....						Frost
perfoliatum, L.....	July 23	Sept 3				
serotinum, Mx.....			Aug 10		Aug 11	Frost
ageratoides, L.....	July 19				Aug 7	Frost
Aster corymbosus, Ait.....	Sept 1					
sericeus, Vent.....	Sept 1		Sept 3			Frost
lævis, L., var. lævigatus.	Sept 5					Frost
azureus, Lindl.....						Frost
Shortii, Boott.....						Frost
sagittifolius, Willd.....						Frost
Drummondii, Lindl.....			Sept 10			Frost
multiflorus, Ait.....			Sept 12			Frost
dumosus, L.....						Frost
miser, Ait.....						Frost
simplex, Willd.....						Frost
puniceus, var. vimineus?						
oblongifolius, Nutt.....	Sept 13		Sept 14			Frost
Novæ-Angliæ, L.....	Sept 5					
ptarmicoides, T. & Gray.					Aug 6	

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COMPOSITÆ.	1871.		1872.		1873.	
Erigeron Canadense, L.....	July 10		July 18			Frost
divaricatum, Mx.....			June 12			Frost
An erect form is sometimes scarcely distinguishable from depauperate forms of E. Canadense.						
bellidifolium, Muhl.....	May 10		May 11	June 21		
Philadelphicum, L.....	May 9		May 17	July 20	May 26	
annuum, Pers.....	May 30		June 8			Frost
strigosum, Muhl.....	May 22		May 28		June 1	Frost
Diplopappus linariifol., Hook.			Sept 3			Frost
Boltonia glastifolia, L'Her...	July 26		July 27			Frost
Solidago latifolia, L.....	Sept 1					Frost
speciosa, Nutt.....					Aug 6	Frost
rigida, L.....	Aug 13					Frost
patula, Muhl.....						
arguta, Ait.....					Aug 6	
ulmifolia, Muhl.....	Sept 4					Frost
nemoralis, Ait.....			Aug 15		Aug 9	Frost
radula, Nutt.....			Sept 14			Frost
Canadensis, L.....	Aug 10					Frost
lanceolata, L.....						
Polymnia Canadensis, L.....	June 15		June 21			Frost
Silphium laciniatum, L.....	July 3		July 4		June 28	Aug 20!
terebinthinaceum, L....						
integrifolium, Mx.....	July 15		Sept 8	July 2		
Leaves often obscurely serrate, sometimes in threes.						
perfoliatum, L.....	July 15	Sept 3	July 3			
Parthenium integrifolium, L.	June 9		June 18	Aug 16	June 10	
Ambrosia trifida, L.....	July 19	Sept 12	July 22	Sep 20!		
artemisiæfolia, L.....	July 23		July 26			Frost
psilostachya, DC.....	July 23		July 28			Frost
Xanthium strumarium, L....	Aug 4					
Eclipta procumbens, Mx....						Frost
Echinacea angustifolia, DC..	June 5	July 12	June 9	July 19!	June 23	
Rudbeckia laciniata, L.....					Aug 20	
subtomentosa, Pursh ...	July 28	Sept 15	July 26			
triloba, L.....	July 26	Sept 30	Aug 3		July 26	
hirta, L.....	June 6		June 14		June 16	Frost
Lepachys pinnata, T. & Gr..	June 24	Aug 20	July 4			
Helianthus annuus, L.....	July 1		July 16			Frost
rigidus, Desf.....	Aug 5		Aug 1		Aug 1	
lætiflorus, Pers.....	July !					
occidentalis, Riddell....	July 22		July 19		Aug 2	
grosse-serratus, Martens.	Aug 20		July 22			Frost
strumosus, L.....						
Coreopsis palmata, Nutt....	June 8	Aug 11	June 18			
tripteris, L.....	Aug 6	Sept 28	Aug 6			
aristosa, var. mutica, Gr.						Frost
trichosperma, Mx. ?						
discoidea, T. & Gr.....						Frost

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COMPOSITÆ.	1871.		1872.		1873.	
Actinomeris squarrosa, Nutt.			Aug 5			
Bidens frondosa, L.....	Aug 14		Aug 13			Frost
connata, Muhl.....						Frost
cernua, L.....						Frost
Dysodia chrysanthemoides Lag	Aug 9		Aug 16			Frost
Helenium autumnale, L.....	July 30		Aug 2			Frost
Maruta Cotula, DC.....	June 1		June 14			Frost
Achillea Millefolium, L.....	May 20		May 25		May 27	Frost
Tanacetum vulgare, L.....			July 12			
Artemisia caudata, Mx.....	Aug 6	Sept				
Ludoviciana, Nutt.....			July			
biennis, Willd.....			Sept			Frost
Gnaphalium polycephal., Mx						
Antennaria plantagin., Hook.	April 4	May 6	Aprl 25	May 14		
Erechthites hieracifolia, Raf.	Aug 9 !					Frost
Cacalia tuberosa, Nutt.....			July 7		Jun 28 !	
atriplicifolia, L.....	July 22	Sept 17	Aug 4			
Senecio aureus, L.....	Aprl 24		May 6	June 15	May 17	June 14
var. Balsamitæ, Gray.	Included in above figures.					
Cirsium lanceolatum, Scop...	June 26		July 13			Frost
discolor, Spreng.....						
altissimum, Spreng.....	Aug 10		Aug 9		Aug 14	Frost
pumilum, Spreng.....			June 10	July 17		
Lappa officinalis, Allioni....	July 4	Sep 25 !	July 20		July 29	
Cynthia Virginica, Don.....	May 14		May 25	June 27	May 25	
Troximon cuspidatum, Pursh.			May 3		May 6	May 27
Now nearly extinct here.						
Hieracium scabrum, Mx.....						
longipilum, Torrey.....	July 30		July 23			Frost
Nabalus albus, Hook.....	Aug 14					Frost
racemosus, Hook.....						
asper, Torr. & Gray....			Sept 10			
Taraxacum Dens-leonis, Desf.	Aprl 12	July 10	May 3	July 8	May 5 !	July 1
Lactuca Canadensis, L.....						
Mulgedium Floridanum, DC.						
LOBELIACEÆ.						
Lobelia cardinalis, L.....	July 25		July 27			Frost
syphilitica, L.....			Aug 17			Frost
inflata, L.....			July 25			Frost
spicata, Lam.....	June 1		June 2	July 29		
CAMPANULACEÆ.						
Campanula aparinoides, Pursh			July 10			
Americana, L.....	July 6	Sep 30 !	July 23			
Specularia perfoliata, A. DC.	June 2		June 6	June 30	June 11	
ERICACEÆ.						
Monotropa uniflora, L.....						

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PLANTAGINACEÆ.	1871.		1872.		1873.	
Plantago major, L.....	June 19				Jun 25	
Virginica, L. ?						
EBENACEÆ.						
[Diospyros Virginiana, L...						
Said to be found on islands in the Mississippi four miles south of Oquawka, on the Iowa side. (I have seen fruit from this station.) It may grow on the Illinois side, also.						
PRIMULACEÆ.						
Dodecatheon Meadia, L.....	Aprl 25	May 20!			May 15	June 7
Lysimachia thyrsiflora, L....			May 22			
stricta, Ait.....						
ciliata, L.....	June 8		June 17			Agt 12!
lanceolata, Walt.....			July 11	Aug 27!		
longifolia, Pursh.....	July 6		July 9	Aug 2!		
LENTIBULACEÆ.						
Utricularia vulgaris, L.....						
BIGNONIACEÆ.						
Tecoma radicans, Juss.....	June 8	Aug!	June 24		June 22	
Martynia proboscidea, Glox..	June 6		June 13		June 25	Frost
OROBANCHACEÆ.						
Aphyllon uniflorum, T. & G.						
SCROPHULARIACEÆ.						
Verbascum Thapsus, L.....	June 7		June 24			Frost
Linaria Canadensis, Spreng..	Aprl 25	May 26			May 20	
vulgaris, Mill.....	May 18		June 4		June 12	Frost
Scrophularia nodosa, L.....	May 19		May 19		May 23	Frost
Chelone glabra, L.....	Aug 26					Frost
Pentstemon pubescens, Sol..	May 14	July 2	May 16	June 24	May 21	
Digitalis, Nutt.....	June 6		June 9	June 26		June 26
grandiflorus, Fraser.....	May 18	June 6	May 25	Jun 15!		
Mimulus ringens, L.....	July 1		July 8			Frost
Conobea multifida, Benth....			July 28			Frost
Gratiola Virginiana, L.....					June 1	Frost
sphærocarpa, Ell.....						Frost
Ilysanthes gratioloides, Benth			May 24			Frost
Synthyris Houghtoniana, "	April 9	May 25	Aprl 26	May 30	May 2	May 30
Veronica Virginica, L.....	July 3		July 15	Sep 10!		
Anagallis, L.....	June 3					
peregrina, L.....	Aprl 24		May 2	Jun 26!	May 11	
Seymeria macrophylla, Nutt.	July 29		Aug 4			
Gerardia purpurea, L.....			Aug 15			Frost
tenuifolia, Vahl.....			Aug 12		Aug 12	Frost
pedicularia, L.....			Aug 3	Sep 22!		
auriculata, Mx.....			Sept 1	Sept 20		
Castilleia coccinea, Spreng...	May 12		May 12	July 8	May 30	
Pedicularis Canadensis, L...			May 2			Jun 10!
lanceolata, Mx.....	Aug 28					Frost

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ACANTHACEÆ.	1871.		1872.		1873.	
Dianthera Americana, L....			June 18	Aug 20		
Ruellia ciliosus, Nees.....	June 6	Sept 30	June 25	Sep 20!	June 21	
strepens, Nees.....	June 3	June 18!			June 25	
VERBENACEÆ.						
Verbena hastata, L.....	June 15		June 25			Frost
urticifolia, L.....	June 21		July 2			Frost
bracteosa, Mx.....	May 16		Aprl 25		June 2	Frost
stricta, Vent.....	June 7		June 18		Jun 21	Frost
Flowers sometimes white—very rarely rose-colored!						
Lippia lanceolata, Mx.....	June 15		June 24			Frost
Phryma Leptostachya, L....	June 22	Sep 15!	July 9		June 29	
LABIATÆ.						
Teuchrium Canadense, L....	June 15	Sep 20!	June 24		June 27	
Isanthus cæruleus, Mx.....						Frost
Mentha Canadensis, L.....						
piperita, L.....						
Lycopus Virginicus, L.....						
Europæus, L.....						
Pycnanthemum pilosum, Nutt	July 15	Sept 30	July 22			
lanceolatum, Pursh.....		Sept 15	July 4			
linifolium, Pursh.....	June 17		July 1		June 26	
Hedeoma hispida, Pursh.....				July 4	May 25	
pulegioides, Pers.....						
Monarda punctata, L.....	June 27		July 3		July 5	Frost
fistulosa, L.....	June 25	Aug 22	June 29	Aug 29!	July 3	
Clinopodia, L.....						
Prof. GRAY now considers this to be distinct from M. fistulosa.						
Lophanthus scrophular., Bnth	July 23	Sept 25				
Blephilia hirsuta, Benth.....	June 25	Aug 31	July 12		July 11	
Nepeta Cataria, L.....		Sep 15!	June 25		June 22	
Physostegia Virginiana, Bnth			July 25			Frost
Brunella vulgaris, L.....						
Scutellaria versicolor, Nutt..	June 3		June 17	Jun 28!		Aug 7!
lateriflora, L.....	July 10					Frost
parvula, Mx.....	May 17		May 23	Jun 27!	May 26	
var. mollis, Gray, ined.	About the same time.					
Frequent along the steep, sandy banks of the Mississippi a mile north of Oquawka, and northward.						
Marrubium vulgare, L.....						Frost
Stachys palustris, L.....					June 12	
var. aspera, Gray.....	June 6		June 24			Frost
var. glabra, Gray.....						
Leonurus Cardiaca, L.....	May 25	Aug 30	June 5		June 5	
POLEMONIACEÆ.						
Polemonium reptans, L.....			May 2	May 27	May 8	June 9
Phlox pilosa, L.....	May 3	June 10	May 11	June 23	May 22	Jun 19
divaricata, L.....	Aprl 16	May 20	May 2	June 1	May 10	June 6

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BORRAGINACEÆ.	1871.		1872.		1873.	
Symphytum officinale, L.....			June 9			
Onosmodium Carolinian., DC.	June 4	July 30	June 16	July 20		Agt 10!
Lithospermum latifolium, Mx.						
hirtum, Lehm.....	Aprl 16		May 1	July 30	Aprl 29	
canescens, Lehm.....	Aprl 22		May 1	June 25	Aprl 30	
angustifolium, Mx.....	May 7		May 4			

(L. longiflorum, Spreng.) Mr. M. S. Bebb has made the discovery that the specific name "longiflorum" can only be properly applied to the early flowering plant. Later in the season the flowers grow smaller and the plant becomes L. angustifolium, Mx.! the older name.

Mertensia Virginica, DC....	Aprl 6	May 18	Aprl 28	June 1	Aprl 30	May 30
Echinospermum Lappula, Leh	May 28		May 16			Frost
Cynoglossum officinale, L....	May 11		May 17		May 21	Aug
Morisoni, DC.....	June 29	Sept 15	July 12			
HYDROPHYLLACEÆ.						
Hydrophyllum Virginicum, L				June 17		
appendiculatum, Mx....	May 7	June 10	May 18	Jun 15 !		
Ellisia Nyctelea, L.....	Aprl 24		May 6	June 20	May 10	
ambigua, Nutt.....						
CONVOLVULACEÆ.						
Ipomœa lacunosa, L.....						Frost
pandurata, Meyer.....			July 1	Aug 16!		
Calystegia sepium, R. Br....	June 5	Sep 20 !			June 11	
Bonamia Pickeringii, Gray..						Frost

Common on a sandy prairie four miles north of Oquawka.

Cuscuta tenuiflora, Engelm..	Aug 4	Sept 4 !	Aug 12		Aug 12	
glomerata, Choisy.....	July 29	Sep 18 !	Aug 4		Aug 4	
SOLANACEÆ.						
Solanum Dulcamara, L.....			June 6	Aug !		
nigrum, L.....			June 20			Frost
Carolinense, L.....	June 1		June 25			Frost
Physalis Philadelphica, Lam.						
pubescens, L. ?						
viscosa, L.....						
Pennsylvanica, L.....						
var. lanceolata, Gray..						
Nicandra physaloides, Gærtn.			July 25			Frost
Lycium vulgare, Dunal.....	Aprl 24		May 2			Frost
Datura Tatula, L.....	June 19		June 7			Frost
GENTIANACEÆ.						
Gentiana 5-flora, v. occident.	Sept 8					Frost
Andrewsii, Griseb.....	Sept 15					Frost
puberula, Mx.....	Sept 11					Frost
APOCYNACEÆ.						
Apocynum cannabinum, L. :						
var. hypericifolium, Gr.	June 4		June 16	Aug !	June 16	
var. glaberrimum, Gr..						
androsæmifolium, L.....	June 4		June 18	July 14		

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ASCLEPIADACEÆ.	1871.		1872.		1873.	
Asclepias Cornuti, Decaisne..	June 8	Sept 4 !	June 20		June 22	
phytolaccoides, Pursh...	May 28	Jun 20 !	June 23		June 17	
purpurascens, L.....	June 5	June 26	June 17			
quadrifolia, Jacq.....					June 12	
incarnata, L.....	June 28	Sept 2 !	July 4			
obtusifolia, Mx.....	June 1	June 18	June 6		May 9	
tuberosa, L.....	June 5	Aug 14	June 25	Aug 28!	June 23	
verticillata, L.....	July 1		July 3	Aug 20!		Aug 15
Acerates viridiflora, Ell.....	June 3		June 15	Aug 19		
longifolia, Ell.....	July 6		July 10	Aug 14		
OLEACEÆ.						
Fraxinus Americana, L.....	Aprl 7	Aprl 30	Aprl 27	May 5	May 18	
quadrangulata, Mx.....						
ARISTOLOCHIACEÆ.						
Asarum Canadense, L.....	Aprl 24		May 2	Jun 25!	May 12	
NYCTAGINACEÆ.						
Oxybaphus nyctagineus, Sw.	May 18		May 21		June 1	Frost
CHENOPODIACEÆ.						
Cycloloma platyphyllum, Moq	July 1					Frost
Chenopodium album, L.....	June 15		June 17			Frost
hybridum, L.....						
Botrys, L.....	June 15		June 7			Frost
ambrosioides, L.....						
var. anthelminticum Gr			Aug 10			Frost
AMARANTACEÆ.						
Amarantus retroflexus, L....			July 10			Frost
albus, L.....						Frost
Montelia tamariscina, Gr....			July 7			Frost
var. concatenata, Gr..						Frost
Frœlichia Floridana, Moq...			July 2			Frost
POLYGONACEÆ.						
Polygonum incarnatum, Ell..	June 16		July 1			Frost
Pennsylvanicum, L.....	June 14		July 1			Frost
Persicaria, L.....	June 11		June 28			Frost
Hydropiper, L.....			July 7			Frost
acre, H. B K.....						Frost
hydropiperoides, Mx....						Frost
amphibium, L.....			July 15	Sept !		
Virginianum, L.....	July 20		July 9			
aviculare, L.....	May 26					Frost
var. erectum, Roth...						Frost
ramossissimum, Mx.....	July 25					Frost
tenue, Mx.....	July 20		July 20			Frost
Convolvulus, L.....			June 27			Frost
dumetorum, L.....						Frost

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POLYGONACEÆ.	1871.		1872.		1873.	
Rumex Britannica, L.....						
verticillatus, L.....						
crispus, L.....						
Acetosella, L.....	May 13	Sept 20	May 6		May 14	
SANTALACEÆ.						
Comandra umbellata, Nutt.,	May 9		May 6	Jun 12!		
EUPHORBIACEÆ						
Euphorbia Geyeri, Engelm...						Frost
maculata, L.....			June 24			Frost
humistrata, Engelm....			Aug 12			Frost
hypericifolia, L.....	June 26		June 28			Frost
corollata, L.....	June 7		June 6		June 26	Frost
dentata, Mx.....						
Acalypha Virginica, L.....						
var. gracilens, Gray...						
Croton glandulosus, L.....	June 16		June 24			Frost
URTICACEÆ.						
Ulmus fulva, Mx.....	Mch 20	Aprl 2	Aprl 13	Aprl 22	Aprl 4	
Americana, L.....	Mch 19	Mch 31	Aprl 10	Aprl 18	Aprl 3	
Celtis occidentalis, L.....						
Morus rubra, L.....	May 1	May 15	May 8	May 18		
Laportea Canadensis, Gaudi.						
Pilea pumila, Gray.....						
Bœhmeria cylindrica, Jacq...	June 25					
Parietaria Pennsylvan., Muhl.					May 24	
Cannabis sativa, L.....			July 18			
Humulus Lupulus, L.....			Aug 5			
PLATANACEÆ.						
Platanus occidentalis, L.....			May			
JUGLANDACEÆ.						
Juglans nigra, L.....						
cinerea, L.....						
Carya oliviæformis, Nutt.....						
alba, Nutt.....			May 10			
sulcata, Nutt.....						
tomentosa, Nutt.....						
amara, Nutt.....						
CUPULIFERÆ.						
Quercus alba, L.....						
macrocarpa, Mx.....						
bicolor, Willd.....						
Prinus, L var. acuminata						
nigra, L.....	Aprl 24	May 14				
coccinea, Wang.....						
var. tinctoria, Gray...						
rubra, L.....						
palustris, Du Roi.....			May 5			

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CUPULIFERÆ.	1871.		1872.		1873.	
Corylus Americana, Walt...	Mch 11	Mch 21	Aprl 4	Aprl 19		
Ostrya Virginica, Willd.....	Aprl 12	Aprl 25			May 6	
Carpinus Americana, Mx....						
BETULACEÆ.						
Betula nigra, L.....	Aprl 9	Aprl 25			May 7	
SALICACEÆ.						
Salix humilis, Marshall.....						
discolor, Muhl.....	Mch 21	Aprl 3	Aprl 8	Aprl 20	Aprl 3	
cordata, Muhl.....					Aprl 17	Aprl 30
nigra, Marshall.....						
var. amygdaloides....						
longifolia, Muhl.....					May 1	
lucida, Muhl. ?						
Populus tremuloides, Mx....	Mch 13	Mch 23	Aprl 5	Aprl 17	Aprl 2	
monilifera, Ait.....	Aprl 4	Aprl 8	Aprl 19	Aprl 26		May 6 !
CONIFERÆ.						
Juniperus Virginiana, L.....						
ARACEÆ.						
Arisæma triphyllum, Torr...	Aprl 25		May 7			
Dracontium, Schott.....	May 11					
Symplocarpus fœtidus, Salisb.	Mch 9	Mch 31	Aprl 5	Aprl 17	Aprl 1	
Acorus Calamus, L.....					June 1	
TYPHACEÆ.						
Typha latifolia, L.....						
Sparganium eurycarpum, Eng	May 12				June 1	
NAIADACEÆ.						
Zannichellia palustris, L.....						
Potamogeton natans, L.....						
hybridus, Mx.....						
ALISMACEÆ.						
Alisma Plantago, v. Am., Gr.						
Sagittaria variabilis, Engelm.						
calycina, Engelm.....						Frost
heterophylla, Pursh.....						
graminea, Mx.....						
ORCHIDACEÆ.						
Orchis spectabilis, L.....			May 11			
Spiranthes cernua, Richard..			Sept 14			Frost
gracilis, Bigelow.....	Aug 8	Sept 8 !				
Calopogon pulchellus, R. Br.			June 9	July 1		
Microstylis ophioglossoides, N			June 10			
Liparis liliifolia, Richard....			June 1	June 25	June 8	
Corallorhiza odontorhiza, Nutt		Sep 26 !				
Cypripedium candidum, Muhl		May 20	May 19			
pubescens, Willd.....			May 19		June 1	
spectabile, Swartz.....		June 12	June 9	June 26	June 12	

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HYDROCHARIDACEÆ.	1871.		1872.		1873.	
Anacharis Canadensis, Planch						
AMARYLLIDACEÆ.						
Hypoxys erecta, L.....	May 5		May 9	June 14	May 10	
IRIDACEÆ.						
Iris versicolor, L.....	May 15	June 20	May 24	June 22	May 31	June 25
Sisyrinchium Bermudiana, L:	Aprl 29		May 4	June 16	May 14	
var. mucronatum, Gr.						
var. albidum, Gray...						
DIOSCOREACEÆ.						
Dioscorea villosa, L.....		June 19				
SMILACEÆ.						
Smilax hispida, Muhl.....			May 19		May 29	
herbacea, L.....	May 6	Jun 18 !	May 16	Jun 26 !		
LILIACEÆ.						
Trillium recurvatum, Beck...	Aprl 12	May 15	May 1	June 1	May 6	
erectum, var. declinatum.	Aprl 22		May 4			
Melanthium Virginicum, L...					June 26	
Uvularia grandiflora, Smith..	Aprl 18	May 12 !	May 12		Aprl 30	
Smilacina racemosa, Desf....			May 25	Jun 12 !		
stellata, Desf.....	May 13	May 23	May 12			
Polygonatum biflorum, Ell..						
giganteum, Dietrich....						
Lilium Philadelphicum, L...	June 1		June 13	June 30	June 12	
superbum, L.....			July 3		July 2	
Erythronium albidum, Nutt..	Aprl 7	Aprl 28	Aprl 25	May 10	Aprl 29	
Scilla Fraseri, Gray.....	May 7	May 25	May 14	May 27	May 30	June 9
Allium Canadense, Kalm....						
JUNCACEÆ.						
Juncus bufonius, L.....						
nodosus, v. megacephalus						
tenuis, Willd.....						
PONTEDERIACEÆ.						
Pontederia cordata, L.....	June 12					
Schollera graminea, Willd...						
COMMELYNACEÆ.						
Commelyna Virginica, L....			June 27	Sept !	Jun 29 !	
Tradescantia Virginica, L...	May 21	Sep 10 !	May 20		May 28	

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CYPERACEÆ.

Cyperus diandrus, Torr.
erythrorhizos, Muhl.
inflexus, Muhl.
acuminatus, Torr.
phymatodes, Muhl.
strigosus, L.
Michauxianus, Schultes.
Schweinitzii, Torr.
filiculmis, Vahl.
Hemicarpha subsquarrosa, Nees.
Eleocharis obtusa, Schultes.
Engelmanni, Steud. var. detonsa, [Gray ined.

Mississippi bottoms, 1 mile south of Oquawka—rare—with E. obtusa. Distinguished from that species by its cylindrical spikes and the short bristles of the perianth; stigmas 2. Bristles abortive or only their bases present in the var.

palustris, R. Br.
intermedia, Schultes.
acicularis, R. Br.
Scirpus validus, Vahl.
fluviatilis, Gray.
atrovirens, Muhl.
lineatus, Michx.
Eriophorum, Michx.
Fimbristylis capillaris, Gray.
autumnalis, R. & S.
spadicea, var. castanea, Gr.

One mile south of Oquawka. Also in Hancock county, Dr. S. B. Mead; Kankakee county, Prof. E. J. Hill.

Scleria triglomerata, Mx.

CAREX.

(My Carices were all submitted to, and determined by, Mr. M. S. Bebb.)

C. vulpinoidea, Michx.
crus-corvi, Shuttlew.
stipata, Muhl.
sparganioides, Muhl.
cephaloidea, Dew.
cephalophora, Muhl.
rosea, Schk.
arida, Schw. & Torr.
straminea, Schk.
aperta, Boott.
stricta, Lam.
Meadii, Dewey.
grisea, Wahl.
Davisii, Schw. & Torr.
Pennsylvanica, Lam.
pubescens, Muhl.
lanuginosa, Michx.
trichocarpa, var. imberbis, Gray.
hystricina, Willd.
Grayii, Carey.
lupulina, Muhl.
squarrosa, L.
utriculata, Boott.
longirostris, Torrey.

GRAMINEÆ.

Leersia Virginica, Willd.
oryzoides, Swartz.
lenticularis, Michx.
Zizania aquatica, L.
Alopecurus geniculatus, L.
Phleum pratense, L.
Vilfa aspera, Beauv.
vaginæflora, Torr.
Sporobolus heterolepis, Gray.
cryptandrus, Gray.
Agrostis perennans, Tuck.
scabra, Willd.
Cinna arundinacea, L.
Muhlenbergia glomerata, Trin.
Mexicana, Trin.
diffusa, Schreb.
Brachyelytrum aristatum, Beauv.
Stipa spartea, Trin.
Aristida gracilis, Ell.
tuberculosa, Nutt.
Spartina cynosuroides, Willd.
Bouteloua hirsuta, Lagasca.
curtipendula, Gray.
Eleusine Indica, Gærtn.
Tricuspis seslerioides, Torr.
purpurea, Gray.

Sandy Prairies and Oak Barrens, with Bouteloua hirsuta, Panicum autumnale, &c.; common.

Kœleria cristata, Pers.
Eatonia obtusata, Gray.
Melica mutica, Walt.
Glyceria nervata, Trin.
fluitans, R. Brown.
Poa pratensis, L.
sylvestris, Gray.

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GRAMINEÆ.

Eragrostis reptans, Nees.
poæoides, Beauv. ?
var. megastachya, Gr.
pilosa, Beauv.
Frankii, Meyer.
tenuis, Gray.
pectinacea, Gray.
Festuca tenella, Willd.
nutans, Willd.
Bromus secalinus, L.
ciliatus, L.
Phragmites communis, Trin.
Hordeum pratense, Huds.
Elymus Virginicus, L.
Canadensis, L.
striatus, Willd.
Gymnostichum Hystrix, Schr.
Phalaris arundinacea, L.
Paspalum læve, Michx.
Panicum filiforme, L.
glabrum, Gaudin.
sanguinale, L.
proliferum, Lam.
capillare, L.
autumnale, Bosc.
virgatum, L.
latifolium, L.
clandestinum, L.
pauciflorum, Ell.
dichotomum, L.
depauperatum, Muhl.
Crus-galli, L.
Ju var. hispidum, Gray.
Setaria verticillata, Beauv.
glauca, Beauv.
Tenchrus tribuloides, L.
Andropogon furcatus, Muhl.
Sesoparius, Michx.
Sorghum nutans, Gray.

EQUISETACEÆ.

Equisetum arvense, L.
lævigatum, Braun.

FILICES.

Adiantum pedatum, L.
Pteris aquilina, L.
Pellæa atropurpurea, Link.
Asplenium angustifolium, Mx.
Filix-fœmina, Bernh.
Phegopteris hexagonoptera, Fee.
Aspidium acrostichoides, Swartz.
Cystopteris bulbifera, Bernh.
fragilis, Bernh.
Struthiopteris Germanica, Willd.
Osmunda Claytoniana, L.

LYCOPODIACEÆ.

Selaginella rupestris, Spring.

HYDROPTERIDES.

Azolla Caroliniana, Willd.

MUSCI.

Dr. James kindly determined for me the following Mosses, collected near Oquawka.

Dicranum rufescens, Turner.
Ceratodon purpureus, Brid.
Barbula unguiculata, Hedw.
Orthotrichum strangulatum, Beauv.
Schistidium apocarpum, Br. & Sch.
Atrichum undulatum, Beauv.
Polytrichum juniperinum, Hedw.
Timmia megapolitina, Hedw.
Bryum argenteum, L.
cernuum, Hedw.
intermedium, Brid.
cæspiticium, L.
Mnium cuspidatum, Hedw.
Bartramia pomiformis, Hedw.
Funaria hygrometrica, Hedw.
var. calvescens.
microstoma,
Physcomitrium pyriforme, Br. & Sch.
Anomodon obtusifolius, Br. & Sch.
Leskea obscura, Hedw.
rostrata, Hedw.
Thelia asprella, Sullivant.
Plyaisæa intricata, Br. Eur.
Platygyrium repens, Br. Eur.
Cylindrothecium seductrix, Br. Eur.
cladorrhizans, Br. Eur.
compressum, Br. Eur.
Climacium Americanum, Brid.
Hypnum delicatulum, L.
gracile, Br. & Sch.
confertum, Br. & Sch. ?
salebrosum, Hedw.
lætum, Bridel.
acuminatum, Beauv.
polymorphum, Br. & S.
serpens, Hedw.
radicale, Bridel.
riparium, Hedw.

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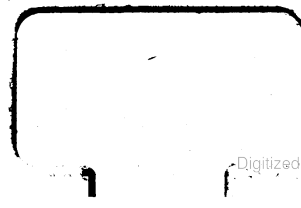

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